

WHAT IS CLAIMED IS:

1. An active matrix display device including a display panel, a common electrode, and a source electrode, in which the common electrode and the source electrode are disposed so as to sandwich the display panel therebetween, and having a plurality of display modes,

in order to match a center of a voltage waveform of a voltage applied to the common electrode with a center of a voltage waveform of a voltage applied to the source electrode in each of the display modes,

the active matrix display device comprising:

storage means for storing optimum voltages each of which is applied to an electrode whose voltage waveform is intended to be shifted; and

voltage applying means for reading out the optimum voltage corresponding to the display mode from the storage means and applying the read optimum voltage to the electrode whose voltage waveform is intended to be shifted.

2. The active matrix display device according to claim 1, wherein:

the storage means, which are connected to a common electrode drive circuit, store a plurality of voltages for shifting a voltage waveform of a voltage applied to the

common electrode, respectively for the display modes.

3. The active matrix display device according to claim 1, wherein:

the storage means, which are connected to a source electrode drive circuit, store a plurality of voltages for shifting a voltage waveform of a voltage applied to the source electrode, respectively for the display modes.

4. The active matrix display device according to claim 2, wherein:

the common electrode drive circuit has an electronic volume circuit incorporated therein, and the optimum applied voltage read out from the storage means is set as an electronic volume value of the electronic volume circuit to control a drive voltage applied to the common electrode.

5. The active matrix display device according to claim 3, wherein:

the source electrode drive circuit has an electronic volume circuit incorporated therein, and the optimum applied voltage read out from the storage means is set as an electronic volume value of the electronic volume circuit to control a drive voltage applied to the source electrode.

6. The active matrix display device according to claim 1, wherein:

the optimum applied voltage is determined in accordance with a lowest value and a voltage width of the optimum applied voltage.

7. The active matrix display device according to claim 1, wherein:

the optimum applied voltage is determined in accordance with a highest value and a voltage width of the optimum applied voltage.

8. The active matrix display device according to claim 1, wherein:

the optimum applied voltage is determined in accordance with a center value and a voltage width of the optimum applied voltage.